

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/516, 314
Source: PCT
Date Processed by STIC: 01/05/2006

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 01/05/2006

PATENT APPLICATION: US/10/516,314

TIME: 11:29:36

Input Set : A:\P26360.ST5.txt

Output Set: N:\CRF4\01052006\J516314.raw

```

3 <110> APPLICANT: Miyawaki, Atsushi
4   Karasawa, Satoshi
6 <120> TITLE OF INVENTION: Chromoprotein
8 <130> FILE REFERENCE: P26360
10 <140> CURRENT APPLICATION NUMBER: 10/516,314
11 <141> CURRENT FILING DATE: 2004-12-10
13 <150> PRIOR APPLICATION NUMBER: PCT/JP03/07337
14 <151> PRIOR FILING DATE: 2003-06-10
16 <150> PRIOR APPLICATION NUMBER: JP2002-168584
17 <151> PRIOR FILING DATE: 2002-06-10
19 <160> NUMBER OF SEQ ID NOS: 12
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 229
25 <212> TYPE: PRT
26 <213> ORGANISM: Cnidopus japonicum
28 <400> SEQUENCE: 1
30 Met Ala Ser Met Ile Lys Asp Val Met Arg Phe Lys Met Asn Met Glu
31 1           5           10           15
34 Gly Thr Val Asn Gly His His Phe Lys Cys Glu Ala Asp Gly Glu Gly
35           20           25           30
38 Lys Pro Tyr Glu Gly Thr Gln Leu Gly Arg Ile Arg Val Thr Glu Gly
39           35           40           45
42 Gly Pro Leu Pro Phe Ser Phe Asp Ile Leu Ser Thr Cys Thr Gln Tyr
43           50           55           60
46 Gly Ser Lys Thr Met Ile Lys His Leu Ser Gly Ile Pro Asp Tyr Phe
47 65           70           75           80
50 Lys Gln Ser Phe Pro Glu Gly Phe Thr Trp Glu Arg Asn Thr Ile Tyr
51           85           90           95
54 Glu Asp Gly Gly His Leu Thr Ala His Gln Asp Thr Ser Leu Lys Gly
55           100          105          110
58 Asp Cys Leu Ile Tyr Lys Val Lys Val Leu Gly Gly Asn Phe Pro Ala
59           115          120          125
62 Asn Gly Pro Val Met Gln Lys Lys Ser Lys Gly Trp Glu Pro Cys Thr
63           130          135          140
66 Glu Met Leu Tyr Pro Arg Asp Gly Val Leu Cys Gly Gln Thr Leu Met
67 145          150          155          160
70 Ala Leu Lys Cys Ala Asn Gly Lys Asn Leu Thr Cys Gln Leu Arg Ser
71           165          170          175
74 Thr Tyr Arg Ser Arg Lys Gln Ala Ser Ala Leu Gln Thr Pro Gly Phe
75           180          185          190
78 His Phe Gly Asp His Arg Ile Glu Ile Leu Lys Glu Ala Glu Gly Gly
79           195          200          205

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/516,314

DATE: 01/05/2006

TIME: 11:29:36

Input Set : A:\P26360.ST5.txt

Output Set: N:\CRF4\01052006\J516314.raw

```

82 Asn Tyr Phe Glu Gln His Glu Thr Ser Val Ala Arg Tyr Cys Asp Val
83      210                               215                   220
86 Ala Pro Ser Lys His
87 225
90 <210> SEQ ID NO: 2
91 <211> LENGTH: 690
92 <212> TYPE: DNA
93 <213> ORGANISM: Cnidopus japonicus
95 <400> SEQUENCE: 2
96 atggccttcaa tgattaaaga cgttatgcgc ttcaagatga acatggaagg gacggttaac      60
98 ggccaccact tcaagtgtga agctgatgga gagggcaagc catatgaagg gactcaactc      120
100 ggaagaataa gggtcaccga aggcgggcca ttgccgtttt ctttcgacat cttgtcgact      180
102 tgcactcaat atggaagcaa gaccatgatc aagcatttgt ccgggattcc agactacttt      240
104 aagcagtctt ttccagaagg attcacctgg gaaaggaaca caatctatga ggatggtggt      300
106 cacctcacag ctcaccaaga cactagtctt aaggggagatt gcctgatcta taaagtgaaa      360
108 gtccttggag gtaattttcc tgccaatggc cctgtgatgc agaagaagag caaaggatgg      420
110 gaaccctgta ccgaaatgct ttatccacgt gatggagtgc tttgtggcca aacattgatg      480
112 gcacttaaat gcgccaatgg taaaaatctg acttgccagc taagatctac ttacaggtcc      540
114 agaaaacaag ccagtgcatt gcagacacca ggcttccatt tcggagacca tcgtattgag      600
116 atactcaagg aagcagaggg gggcaattac tttgagcagc acgaaacatc agtcgccagg      660
118 tactgtgatg ttgcccgcgc aaagcactga                               690
121 <210> SEQ ID NO: 3
122 <211> LENGTH: 21
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Primer
129 <400> SEQUENCE: 3
130 gaaggrtgyg tcaayggrca y                                     21
133 <210> SEQ ID NO: 4
134 <211> LENGTH: 23
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Primer
141 <400> SEQUENCE: 4
142 acvggdcat ydgvaagaaa rtt                                     23
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 36
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Primer
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION: (24)..(35)
157 <223> OTHER INFORMATION: wherein "n" is inosine
159 <400> SEQUENCE: 5
W--> 160 ggccacgcgt cgactagtac gggnnngggnn gggnnng                               36

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/516,314

DATE: 01/05/2006

TIME: 11:29:36

Input Set : A:\P26360.ST5.txt

Output Set: N:\CRF4\01052006\J516314.raw

```

163 <210> SEQ ID NO: 6
164 <211> LENGTH: 19
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Primer
171 <400> SEQUENCE: 6
172 atagatcagg caatctccc 19
175 <210> SEQ ID NO: 7
176 <211> LENGTH: 20
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Primer
183 <400> SEQUENCE: 7
184 ggccacgcgt cgactagtac 20
187 <210> SEQ ID NO: 8
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Primer
195 <400> SEQUENCE: 8
196 ggtgagctgt gaggtgacca 20
199 <210> SEQ ID NO: 9
200 <211> LENGTH: 20
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Primer
207 <400> SEQUENCE: 9
208 caccgaaggc gggccattgc 20
211 <210> SEQ ID NO: 10
212 <211> LENGTH: 44
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Primer
219 <400> SEQUENCE: 10
220 aactggaaga attcgcggcc gcagaatttt tttttttttt tttt 44
223 <210> SEQ ID NO: 11
224 <211> LENGTH: 31
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Primer
231 <400> SEQUENCE: 11
232 cgggatccga ccatggcttc aatgattaaa g 31
235 <210> SEQ ID NO: 12

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/516,314

DATE: 01/05/2006

TIME: 11:29:36

Input Set : A:\P26360.ST5.txt

Output Set: N:\CRF4\01052006\J516314.raw

236 <211> LENGTH: 33

237 <212> TYPE: DNA

238 <213> ORGANISM: Artificial sequence

240 <220> FEATURE:

241 <223> OTHER INFORMATION: Primer

243 <400> SEQUENCE: 12

244 ccggaattct tagtgctttg acggggcaac atc

33

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/516,314

DATE: 01/05/2006
TIME: 11:29:37

Input Set : A:\P26360.ST5.txt
Output Set: N:\CRF4\01052006\J516314.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 24,25,29,30,34,35

VERIFICATION SUMMARY

DATE: 01/05/2006

PATENT APPLICATION: US/10/516,314

TIME: 11:29:37

Input Set : A:\P26360.ST5.txt

Output Set: N:\CRF4\01052006\J516314.raw

L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0